

# Currently Available Modules

If you require a software package that is not currently available on the Oscar cluster, please [contact ICERM's IT staff](#) and we will work with CCV to get the software installed.

*This list is current as of January 7, 2025. To see the most up to date list of software modules, log into your Oscar account and run the command `module avail`.*

```
---- /oscar/runtime/software/spack/0.20.1/share/spack/lmod/linux-rhel9-x86_64/Core ----  
abacus-container/2021-akaeexs  
abacus/2017-q4ghhm5  
abacus/2021.1-i675dvw  
abacus/2024-h5273a3          (D)  
abacus/2024-ir-a4m5ld5  
abacus/2024-mbessa-ceayfuo  
abacus/2024.1-7pcdqhp  
admixture/1.3.0-onwaqrp  
afni/23.3.07s-zm43m3u  
afni/24.2.01s-kstpoqt      (D)  
anaconda/2023.09-0-7nso27y  
angsd/0.935-cbhuwc7  
ant/1.10.13-alpqj4j  
ants/2.4.3-75npyop  
aria2/1.36.0-lsb7zcs  
arm-forge/22.1.3-zq7lvdq  
armadillo/12.2.0-4clpczv  
atom/1.19.3-ty5sdsn  
autoconf/2.69-p4rpd2  
avogadro2/1.99.0-5zl5qaw  
awscli/1.27.84-v22kngs  
bamtools/2.5.2-ki3mdef  
basilisk/2023.11.11s-x4isdvp  
bazel/6.1.1-vvtxktr  
bbmap/39.01-jnnkpwk  
bcftools/1.13-76jesdj  
bcftools/1.16-ewu6fpe      (D)  
bcl2fastq2/2.20.0.422-z3wh636  
beagle/5.4-e43mqsa
```

bedops/2.4.40-bjb2v2n  
bedtools2/2.31.0-lsohc7s  
bismark/0.23.0-eoksupu  
blast-legacy/2.2.26-tcdku3a  
blast-plus/2.2.30-cyxdrt  
blat/37-ebfj5e6  
blender/4.0.0s-v667vhv  
boost/1.80.0-harukoy  
bowtie/1.3.1-2kd7din  
bowtie2/2.4.2-xdquyzq  
bowtie2/2.5.3-qgsc2u (D)  
brotli/1.0.9-h22dril  
bwa/0.7.17-lu4b4dj  
bxh-xcede-tools-container/1.11.14-4sphv7n  
cadence/IC06.18-calibre2022.2-ascb7dw  
cadence/IC06.18.090-6famfci  
cadence/IC23.10.000-ppql2n (D)  
casa/6.6.0-20-py3.8.el7-dqvn5lw  
cdhit/4.8.1-bqmf4jf  
cellranger/arc-2.0.1-uamrhhu  
cellranger/atac-2.0.0-m2tfcpk  
cellranger/6.0.0-dbztt7r (D)  
cfitsio/4.2.0-5grfqtu  
cgal/5.4.1-64mikh  
chrome/119.0.6045.159s-avadhvk  
cli11/2.3.2-pcucv7l  
clustal-omega/1.2.4-mbj3dq5  
cmake/3.6.1-il7bkvj  
cmake/3.26.3-xi6h36u (D)  
cnvnator/0.4.1-w3bkqjf  
code-server/4.20.0-tcrmrsm  
colordiff/1.0.21-ifsyqr  
comsol/5.2-ufifhtv  
comsol/5.6\_yqi27-jnspqto  
comsol/6.3\_yqi27-7yf67lt (D)  
conn/22a-nztrdv3  
connectome-workbench/1.5.0-t66riq  
cppunit/1.14.0-h3hsjgu  
crossrate-container/2016-27ofi4r  
cuda/10.1.243-bxisbai  
cuda/10.2.89-xnfjmr

cuda/11.8.0-lpttyok  
cuda/12.1.1-ebglvvq  
cuda/12.2.0-4lgnkrh  
cuda/12.3.0-r72aozf (D)  
cudnn/7.5.1.10-10.1-hv4e2lt  
cudnn/8.7.0.84-11.8-lg2dpd5  
cudnn/8.9.6.50-12-56zgdoa (D)  
cufflinks/2.2.1-ogzw3z5  
cutensor/1.5.0.3-gqkzath  
datamash/1.8-ib4aakp  
dcm2niix/1.0.20220720-nwsidfo  
diamond/2.0.15-h7xx24l  
dicombrowser/20181217s-ikvqhry  
dlib/19.22-lxah7rq  
dmtcp/3.0.0-xvfukfp  
dorado/0.8.2-s42dhri  
dos2unix/7.4.2-5a6dlgt  
dotnet/8.0.100-5lr7bga  
dropest/0.8.6-ewwx5ik  
ds/9.8.5s-zpqg2jy  
dsi-studio/chen-2023-sif-lytwlk2  
dtitk/2.3.1s-bp7yqjh  
eigen/3.4.0-uycckhi  
eigensoft/7.2.1-6ctbhoz  
emacs/28.2-rwds2pd  
expat/2.5.0-zujczt  
fastme/2.1.5.1-kmg5til  
fastp/0.23.4-xmfbk37  
fastq-screen/0.15.3-7ymgrux  
fastqc/0.11.9-mvd2uhw  
fastqc/0.12.1-sk2rb3a (D)  
fasttree/2.1.11-o5kvig7  
fastx-toolkit/0.0.14-zhaxiyn  
ferret/7.6.0-rzhafh6  
ffmpeg/6.0-fy677gn  
ffmpeg/7.0-xny2fb2 (D)  
fiji/20231107-1617-espdc7g  
filezilla/3.49.1-epfjuus  
flashpca/2.0-zr2wflq  
freebayes/1.3.6-v7rppcd  
freeglut/3.2.2-76qqoqn

freesurfer/7.3.2-zop5n6m  
fsl/6.0.7s-bul4mby  
fv/5.5.2-g2ibb5x  
fzf/0.45.0-pdwl7a4  
gatk/4.3.0.0-234wqft  
gaussian/09\_v1-u6klkps  
gaussian/09-D01\_v2-tw73726  
gaussian/09-D01-TEST\_v3-vv6ar67  
gaussian/16-C01-bb2r2gh (D)  
gaussview/v05-mkdyw6j  
gcc/6.5.0-lwshmx  
gcc/10.1.0-mojgbnp  
gcc/13.1.0-nvrtbp3 (D)  
gcm/2.4.1-lfgoarh  
gdal/3.7.0-4p4onmf  
geeqie/2.4-6vdnc4v  
geos/3.11.2-a6hfu6a  
ghostscript/10.0.0-3atesdh  
gimp/2.10.32-tlknk2n  
git-lfs/3.3.0-laphnvj  
git/2.44.0-6f7n7ni  
glew/2.2.0-plawm2j  
glm/0.9.9.8-m3s6sze  
glpk/5.0-zifs7bb  
gmap-gsnap/2024-08-20-dur7jyc  
gmp/6.2.1-qlaig4m  
gnuplot/5.4.3-pdiiquy  
go/1.17.1-f4mqosa  
go/1.20.3-xknmcqd  
go/1.23.3-d3wvs6z (D)  
google-cloud-cli/456.0.0-3mtj4z6  
gperf/3.1-56q4xf5  
grace/5.1.25-duvo7rn  
graphviz/8.0.1-75znavc  
gsl/2.7.1-khmyfcy  
guppy/6.0.1-wpaqayj  
guppy/6.1.2-wwwvdfu (D)  
gurobi/10.0.1-q7rc5dw  
hdf5/1.12.2-s6aacp3  
hdf5/1.14.1-2-rdd6y6v (D)  
hisat2/2.2.1-gn4pb3l

homer/4.11.1-fpjs4l4  
hpcx-mpi/4.1.5rc2-mts-ukpby4i  
hpcx-mpi/4.1.5rc2s-yflad4v (D)  
htop/3.2.2-kqsjlaj  
htslib/1.12-ecidzx4  
htslib/1.17-zxc2k (D)  
idba/1.1.3-nrxqtw  
idemp/201706-a45gc3d  
idl/8.8.2-d5p4srq  
igraph/0.7.1-wbiepb3  
imagej/154-linux64-java8-jd6sflr  
imagemagick/7.1.1-3-ex4k4u2  
inkscape/1.3s-gshcpwc  
intel-oneapi-compilers/2023.1.0-a7fw7qt  
intel-oneapi-mkl/2023.1.0-xbcd2g3  
intltool/0.51.0-vanhjsr  
iq-tree/2.1.3-gu64b4j  
iq-tree/2.3.6-fn5vscb (D)  
iraf/2.17.1s-2r7ypc5  
itk-snap-container/4.0.2-byhj73  
jags/4.3.1-4mvaxc3  
jellyfish/2.2.7-dywzm7z  
jo/1.9-ki7xc2u  
json-fortran/8.3.0-ehkzpjv  
jsoncpp/1.9.5-vhsa2iy  
julia/1.9.3s-i3zndt3  
julia/1.11.1s-kueea5s (D)  
kraken/1.1.1-e6r2aej  
lemon/1.3.1-jh3h4xt  
leptonica/1.81.0-pebiyok  
leveldb/1.23-f76iwfr  
lftp/4.9.2-vimt4vf  
libarchive/3.6.2-mnc5shn  
libbeef/Nov2020-xhrdwg5  
libdeflate/1.10-5yi7m3g  
libgd/2.2.4-2iyhgxa  
libgd/2.3.3-ubu4k2f (D)  
libgeotiff/1.6.0-voueb6b  
libgit2/1.6.4-a432pgi  
libiconv/1.17-jwjcds2  
libjpeg-turbo/2.1.5-sewtk5u

libjpeg/9e-6djp5nd	
libnsl/1.3.0-calriiy	
libnsl/2.0.1-ed2i5hn	(D)
libpng/1.2.57s-lve65hz	
libpng/1.5.30-ru3zswz	
libpng/1.6.39-ryxiwrd	(D)
libreoffice/7.2.2.sif-drpjygp	
libsdl/2.30.7-4rxs72s	
libtiff/4.5.0-g6fga7e	
libtree/3.1.1-yxst452	
libvips/8.13.3-ex4pfpq	
libwnck/3.24.1-4gvvjhg	
libxc/4.3.4-uy5ogwb	
libxc/5.2.3-ncc5ir4	(D)
libzip/1.3.2-qwqikw6	
liggghts/3.8.0s-rqph5mk	
linaro-forge/23.1.2-pk2lobu	
llvm/16.0.2-mq6g5lb	
lmod/8.7.24-w2akdkb	
mafft/7.505-iuicui	
magma-usrd/V2.28-8-p3zylpg	
magma/2.7.1-cpueygy	
maple/22-cp2uld4	
mark/2018.07.08-43snzfu	
materialstudio/2024s-gbc3dg6	
mathematica/13.2.0-n4i6yua	
matlab/R2019a-rjy3ws	
matlab/R2023a-xd6f7ph	(D)
matlab/R2024b-ipaztju	
maven/3.8.4-w3zgh4v	
mercurial/5.8-vly6btb	
mesa/22.1.6-6dbg5gq	
meson/1.6.0-eipcwzq	
metis/5.1.0-7qoahod	
miniconda3/23.11.0s-odstpk5	
miniforge/23.11.0-0s-hwmjdtj	
minimap2/2.14-33hmvx2	
molden/6.7-isryqwj	
molden/7.3-kytvh3m	(D)
molpro-mpi/2023.2.0s-vyfv74n	
molpro-mpi/2024.3.1-mpipr-hwakoux	(D)

mpc/1.3.1-zbino7j  
mpfr/4.2.0-n2tkxso  
mriconvert/2.1.0-oaq24fz  
mricrogl/2022.07.20-n3b7whc  
mricron/201909-3s2phrj  
msmc2/2.1.4-cuac55f  
multiwfn/3.8\_1208-qn65pif  
mummer4/4.0.0rc1-4llgadq  
muscle/3.8.1551-pys2b76  
mysql/8.0.29-w7xdbde  
nanoflann/1.4.3-u2l24dv  
nbo/7.0-phausw3  
nccl/2.16.2-1-gjmrw5  
ncdu/1.18.1-uofylp6  
nco/5.1.5-36hru5t  
ncview/2.1.8-nxepxtw  
neovim/0.9.4-vygnfr2  
netcdf-c/4.9.2-cfggqwi  
netcdf-c/4.9.2-4ozokng (D)  
netcdf-cxx4/4.3.1-6gcdg5s  
netcdf-fortran/4.6.0-kl27oji  
netcdf/4.9.2-ar77jpt  
netlib-lapack/3.11.0-jdzmstx  
netlogo/6.4.0-psm765m  
netpbm/10.73.43-m2jdopk  
ngc-jax/23.10-paxml-py3-zipheif  
ngc-pytorch/24.03-py3-a6ptiby  
ngc-tensorflow/24.03-tf2-py3-lmnuwwg  
ninja/1.11.1-k2aq3rl  
nlopt/2.7.1-fwj27pk  
nnn/4.9-r7kawsv  
node-js/18.12.1-qkps4za  
nvhpc/23.3-xa4nyqi  
nvtop/3.0.1-7r22pjl  
octopus-lunter/0.7.4-kkqrfrv3  
ollama/0.3.14s-a3gonhs  
openbabel/3.1.1-nay2mkb  
openblas/0.3.23-u6k5fey  
opencv/4.6.0s-5z4piup  
openexr/3.1.5-6fapou6  
openjdk/11.0.17\_8-nw5ylvi

openjdk/17.0.5_8-pq2e7ao	(D)
openjpeg/2.5.0-iyu5vwb	
openmpi/4.1.2-s5wtoqb	
openmpi/4.1.4s-smqniuf	
openmpi/4.1.5-hkgv3gi	
openmpi/4.1.5-kzuexje	(D)
openslide/3.4.1-pzjb2kl	
openssl/1.1.1t-u2rkdft	
or-tools/9.10-k4nov4d	
ovito/3.6.0-rile7ax	
p7zip/17.05-3xtimiz	
pandoc/2.19.2-wawlx5m	
pangolin/0.6-vwij3iv	
parallel/20220522-5ah2i5h	
paraview/5.9.0s-dgv24kr	
patchelf/0.17.2-aqmx4qb	
paup/4.0a168-cwt24ux	
pcre2/10.42-xks64jg	
pdftk/2.02-gu7lpeg	
pdsh-chaos/23.12-t6ywlrp	
perl-dbi/1.643-t74vmeb	
perl/5.26.2-o4iq4b4	
perl/5.36.0-bt34quz	(D)
perl/5.37.9-og4osvm	
perl/5.40.0-o7hxc2	
picard/2.26.2-qabtyqy	
pigz/2.7-zgdly3	
plink/1.9-beta6.27-nvy4vrx	
plink/2.00-b6x44xw	(D)
popoolation2/1.205s-lujn2b	
postgresql/16.4-vzmexkn	
prodigal/2.6.3-vbq7usx	
proj/9.2.0-ni5rcfb	
protobuf/3.22.2-6hlkkut	
py-ase/3.21.0-pyuljod	
py-matplotlib/3.7.1-4afsjsz	
py-statsmodels/0.13.2-sbdhj4k	
py-sympy/1.11.1-gqgr7wu	
pycharm-community/2021.3.3-weqrcly	
pypy/7.3.13-6a5ma5j	
python/3.9.16s-x3wdtvt	



python/3.11.0s-ixrhc3q (D)  
qgis/3.28.3-5axmqsj  
qit/2023-04-04-grwuvvg  
qmcpack-mpi/3.16.0s-qp2hymx  
qscintilla/2.11.6-dq7zlcq  
qt/5.15.9-fb7mjex  
qualimap/2.2.1-mybpdoi  
quantum-espresso-mpi/7.1-gits-v4bxgtv  
quantum-espresso-mpi/7.1s-ia43pjk  
quantum-espresso-mpi/7.3s-kydgjwo (D)  
r/4.0.0-p7gxu4e  
r/4.0.3-pvf2znb  
r/4.1.0-bfjsvw5  
r/4.2.2-z6qdiis  
r/4.3.1-lmofgb4  
r/4.4.0-yyccsj (D)  
raisd/2.9-svyic22  
rclone/1.62.2-o4lkrv6  
readline/6.3-rnqups2  
root/6.28.04-u7t5ax7  
rsem/1.3.3-5obucw6  
rstudio/2023.09.1-lsqy746  
ruby/3.1.0-gnoxsfm  
rust/1.73.0-647r2tw  
rust/1.81.0-3qqoayc (D)  
sage-container/10.3-avpqipf  
sage/9.5-drpqjkh  
sage/10.3-nntihfr (D)  
salmon/1.9.0-itdua6n  
salmon/1.10.1-43ljn7g (D)  
samtools/1.12-4v4uiz6  
samtools/1.16.1-txuglks (D)  
sas/9.4m8-idx4uxl  
schmutzi-container/1.5.7-vsorpcq  
schmutzi-container/1.5.7-3imwf7h (D)  
schrodinger/2023-4-h3kvbn3  
schrodinger/2024-1-yqi27-m4qqm46 (D)  
scons/4.5.2-housgyw  
seqkit/0.10.1-qtiftw4  
seqtk/1.3-kbdjwob  
shapeit4/4.2.2-3us45un

singular/4.4.0-aeloppr  
skewer/0.2.2-nwhklgr  
slicer/5.4.0-rb2kk4l  
slim/4.0.1-kymgtmu  
slim/4.3-u22vcwu (D)  
spdlog/1.11.0-qbi24my  
splash/2.1.4-unrsfpj  
spm/8-77b5myx  
spm/12\_r7606-prcq7fg (D)  
sratoolkit/3.0.0-u4jvgps  
stacks/2.65-geg4r7a  
star/2.7.10b-fj6kao2  
stata/mp17-v7a7uoo  
stata/mp18-3wq5b4o (D)  
stow/2.4.0-y2q7tsn  
stringtie/2.2.1-7uti3ny  
sublime-text/4.4.143-im3loi3  
subread/2.0.2-5agghnd  
swig/4.1.1-bq46cxl  
synopsys/2023.12-df4a3ab  
synopsys/2024.09-q3jwzot (D)  
tabix/2013-12-16-d6qvxp7  
tcsh/6.24.10-dtqo5ky  
tecplot/2022r1-q5cg2zq  
tesseract/4.1.1-l2ejycz  
tesseract/5.3.3-vq3altr (D)  
texlive/20220321-pocclv  
texstudio/3.0.1-64vxo64  
tmux/3.3a-zyhjvvh  
tn93/1.0.12-tcvbyl4  
tree/2.1.0-7tlhzo7  
trimal/1.4.1-ace7du2  
trimgalore/0.6.6-iwfrq4c  
trimgalore/0.6.9-hisz5xp (D)  
trimmomatic/0.39-w5jnhai  
udunits/2.2.28-rycabdx  
usearch/11.0.667-wx6utmj  
v8/3.14.5-aompxje  
vasp-mpi/5.4.4-mdh3hpy  
vasp-mpi/6.3.2\_avandewa-chn3w3j  
vasp-mpi/6.4.2\_cfgoldsm\_vtst-cff5qmk

vasp-mpi/6.4.2\_cfgoldsm-7krhcss  
vasp-mpi/6.4.3\_yqi27-6uzdgwn (D)  
vcftools/0.1.14-syssqsi  
vim/9.1.0867-wl3haj7  
virtualgl/3.1-yphbrfj  
visit-container/3.3.3-qz3dni6  
visit-mpi/3.3.3s-lz2dp7m  
vmd/1.9.3-oin2dnj  
vscode/1.84.2-4tfimgp  
wcstools/3.9.7-lo4forb  
wxwidgets/3.2.2.1-mk5eiyyq  
xcrysden/1.5.60-nuxe46i  
xeyes/1.2.0-nge56yb  
xgboost/1.6.2-fp3ii65  
yaml-cpp/0.7.0-6nno2ru  
zlib/1.2.13-jv5y5e7  
zoxide/0.9.2-ydhigq6  
zstd/1.5.5-zokfqsc

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Revision #3

Created 10 November 2021 19:46:51

Updated 7 January 2025 21:22:56 by Leo Bunyea